

Attorney Docket No.: PTQ-0058  
Inventors: Van Eyk et al.  
Serial No.: 10/824,027  
Filing Date: April 14, 2004  
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This listing of the claims will replace all prior versions  
and listings of claims in the application:

Listing of the claims:

Claim 1: (currently amended) A method for identifying  
an agent ~~or event~~ capable of priming a cell for  
preconditioning and/or inducing preconditioning of a cell,  
tissue or organ comprising assessing the ability of the  
agent ~~or event~~ to modulate abundance of a preconditioning  
protein in a cell, tissue or organ by detecting a modulation  
in abundance of the preconditioning protein in the presence  
of the agent ~~or event~~ as compared to the abundance of  
preconditioning protein in the absence of the agent ~~or~~  
~~event~~, wherein the preconditioning protein is a protein of  
an oxidative phosphorylation (OxPhos) pathway, tricarboxylic  
acid (TCA) cycle, a  $\text{Ca}^{2+}$  handling protein, a chaperone  
protein, or a protein selected from aldehyde dehydrogenase,  
NG-dimethylarginine dimethylaminohydrolase (DDAH), and the  
RNA binding protein regulatory subunit DJ-1.

Claim 2-12: (canceled)

Claim 13: (currently amended) The method of claim 1  
wherein the agent ~~or event~~ identified modulates the

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abundance of preconditioning protein in the cell, tissue or organ and leads to a change via cross-talking, a feed-back mechanism or a signaling mechanism which effects the first window of preconditioning, the second window of preconditioning or both windows of preconditioning of a cell.

Claim 14: (currently amended) The method of claim 1 wherein the agent ~~or event~~ identified modulates the abundance of preconditioning protein in the cell, tissue or organ and leads to a change in function of a protein complex or pathway of which the modified protein is a member.

Claim 15: (currently amended) The method of claim 1 wherein the agent ~~or event~~ identified modifies a mitochondrial protein.

Claim 16: (currently amended) The method of claim 1 wherein the agent ~~or event~~ identified increases a level the abundance of one or more of isocitrate dehydrogenase NAD+ specific subunit alpha IDH, succinyl CoA ligase, a 23 kDa mitochondrial precursor subunit of Complex I, a 24 kDa mitochondrial precursor subunit of Complex I, a 30 kDa

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mitochondrial precursor subunit of Complex I, a  $\delta$  chain  
mitochondrial precursor of an  $F_1$  portion, a d chain  
mitochondrial precursor of a  $F_0$  portion of Complex V,  
prohibitin, ADP ribosyl hydrolase, HSP27 and RNA binding  
protein regulatory subunit (DJ-1).

Claim 17: (currently amended) The method of claim 1  
wherein the agent ~~or event~~ identified decreases ~~a level~~ the  
abundance of one or more of dihydrolipoamide  
succinyltransferase, core protein I of Complex III, metaxin  
2 and sarcalumenin.

Claim 18: (currently amended) The method of claim 1  
wherein the agent ~~or event~~ identified changes ~~a level~~ the  
abundance of DDAH.

Claim 19: (currently amended) The method of claim 1  
wherein the agent ~~or event~~ identified increases post-  
translational modification of  $\beta$  chain mitochondrial  
precursor of the  $F_1$  portion of Complex V, protein X, or  
aconitate hydratase (aconitase).

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Claim 20: (currently amended) The method of claim 1  
wherein the agent ~~or event~~ mimics modulation of the  
preconditioning proteins by adenosine or diazoxide.